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Sir:

Transmitted herewith for filing under 37 CFR 1.53(b) is a(n):

- (X) Utility () Design
() original patent application,
() continuing application,
() continuation-in-part (X) continuation or () divisional of S/N _____ filed _____

INVENTOR(S): Daniel Garfinkel, James Cooke, Maureen Gillis, Hugh-John Fleming, John Christopher Dale.

TITLE: DOMAIN ENGINEERED FERROELECTRIC OPTICAL RADIATION

Enclosed are:

- (X) The Declaration and Power of Attorney. () signed (X) unsigned or partially signed
(X) 9 sheets of (X) formal drawings (two sets) () informal drawings (one set)
() Information Disclosure Statement and Form PTO-1449 () Associate Power of Attorney
() Priority document(s) () (Other) _____ (fee \$ _____)

CLAIMS AS FILED BY LARGE ENTITY				
(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) TOTALS
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TOTAL FILING FEE				\$710
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Respectfully submitted,

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Typed name: Susan Robertson

METHOD AND SYSTEM FOR CAPTURING, STORING, SHARING, AND MANAGING NOTES TAKEN DURING A COMPUTER BASED MEETING

Field of the Invention

The present invention pertains generally to computer-based meeting
5 applications, and more particularly to a method and system for capturing,
storing, sharing, and managing electronic notes generated in a computer
based application.

Background of the Invention

Computer based collaboration tools, which allow two or more
10 remotely located users to simultaneously view data and communicate over a
computer network, allow remotely located users to conduct online meetings.
Just as in face-to-face meetings, the ability to take notes is important in
online meetings for the purpose of capturing the events, issues, action items,
and decisions made during the meeting. In the past, notes taken by
15 participants of an online meeting are typically taken individually by the
various meeting participants and then distributed via paper memos or email.
The current computer-based note-taking capabilities are problematic for
several reasons.

First, current solutions often do not capture enough context to
20 understand the note (e.g., the issue or decision made during the online
meeting). This is due in part to the fact that notes are often limited to text,
missing important graphical information about what was being discussed
(such as the state of the computer display) at the time the note was taken.

A further problem with current note-taking solutions is that captured
25 notes are usually unmanaged, meaning that there is no way to query the
system for decisions made at a meeting or about a particular subject or for
action items assigned to specific people. It is often difficult to track the
status of notes, such as the status of actions items.

Yet a further problem is that different participants take notes that often
30 disagree with each other. This is especially true in the case where each
participants' notes cannot be easily displayed to the other participants.

Accordingly, an improved online note-taking technique is needed that
supports the capture, storage, sharing, management of, and extraction of
information from notes generated during an online meeting.

Summary of the Invention

The present invention is a method and system for capturing, storing, sharing and managing notes in a computer based software application. In particular, the invention is directed to collaborative online meeting environments, but may also be used in stand-alone computer applications which require note-taking and note-management capability.

In accordance with the invention, electronic notes are captured, preferably along with the creation time, author, and appropriate context information. For example, the topic under discussion and the current state of the display screen may also be captured and associated with the note. The context associated with the captured note thereby allows a user to more fully understand the meaning of the note when the note is retrieved at a later time.

The invention also allows users to categorize notes according to type (e.g., General, Action Item, Issue, Decision) and to query on specific note attributes (e.g., creation time, author, etc.) to retrieve information from the notes more quickly. The system also provides a mechanism for updating the status of the notes, thereby allowing users to see the current state of an issue or action item as well as the state at the time the note was created.

The system can be used in stand-alone environments as well as collaboration environments with multiple online meeting participants to capture, store, share, and manage notes.

In accordance with the invention, the system comprises a capture module, a storage module, a retrieval module, and a management module. The capture module provides the capability for capturing the note along with note-specific information and the state of the display screen.

The storage module provides the capability for storing captured information in persistent storage for later recall. The persistent storage module can be implemented in various ways, for example with a relational database or a document management system.

The retrieval module retrieves information from the persistent storage module and displays the results to the user. This module allows the user to specify the type of information to be retrieved.

The management module allows a user to update the status of the note, and with the appropriate permissions, modify the contents of and/or delete notes.

5

Brief Description of the Drawing

The invention will be better understood from a reading of the following detailed description taken in conjunction with the drawing in which like reference designators are used to designate like elements, and in which:

FIG. 1 is a block diagram of an illustrative embodiment of a system in
10 accordance with the invention;

FIG. 2 is an object diagram of a note object that is used by the Notes Service of the invention to represent a user created note;

FIG. 3 is a class diagram of an illustrative embodiment of the Notes Service of the invention;

FIG. 4 is a block diagram of an illustrative embodiment of a system
15 employing the Notes Service in accordance with the invention;

FIG. 5 is an illustrative embodiment of a graphical user interface which provides a user interface for accessing the Notes Service of the invention;

FIG. 6 is a create note dialog in a graphical user interface
20 implemented in accordance with the invention;

FIG. 7 is a display note dialog in a graphical user interface implemented in accordance with the invention;

FIG. 8 is a note detail window displayed in a graphical user interface
25 implemented in accordance with the invention;

FIG. 9 is a link note dialog in a graphical user interface implemented in accordance with the invention;

FIG. 10 is a block diagram of a networked collaboration environment which utilizes the Notes Service of the invention;

FIG. 11(a) and 11(b) together are a unified modeling language (UML)
30 diagram of an illustrative embodiment of a Notes Service implemented in accordance with the invention; and

FIG. 12 is an example embodiment of a Notes Table implementing a notes list for a particular meeting session; and

FIG. 13 is an example embodiment of a Links Table implementing a list of links associated with a list of note objects.

Detailed Description

5 FIG. 1 is a block diagram of an illustrative embodiment of a system in accordance with the invention. As illustrated, the system includes a Notes Service 20, which may be implemented as a separate server application (as shown) which communicates with client applications 15a, ..., 15n to provide note capturing and management capability. In an alternative configuration,
10 Notes Service 20 may be integrated within another application (not shown) that requires the services of the Notes Services 20, or it may be implemented in a peer-to-peer configuration.

FIG. 2 is an object diagram of a note object 10 that is used by Notes Service 20 to represent a user created note. A note object 10 includes a set
15 of note-descriptive attributes 12 and note data 14. Note-descriptive attributes 12 encompass information about the note object 10 itself, including a Note ID 12a, which uniquely identifies the note within the Notes Service 20, and a Note Type 12b. Each type of note identified by the Note Type 12b specifies additional (and possibly different) note-descriptive attributes
20 associated with a note of the specified type.

The Note Data 14 attribute contains data captured by the note (i.e., the actual note content), such as ASCII text, image data, audio data, and other object data. The data contained in the Note Data 14 attribute is not interpreted by the Notes Service 20.

25 FIG. 3 is a class diagram of an illustrative embodiment of Notes Service 20. As illustrated, Notes Service 20 includes the methods: Add Note 22a, Delete Note 22b, Add Attributes 22c, Delete Attribute 22d, Get Note Attributes 22e, Lock Note 22f, Unlock Note 22g, List Notes 22h, Add Note Data 22i, Delete Note Data 22j, Get Note Data 22k, and Display Note 22k.

30 Add Note 22a captures a note and adds it to a notes list managed by the Notes Service 20 for a particular application session. In the illustrative embodiment, the note is broadcast as an XML string, where the attributes are encoded in the XML. The Note ID 12a is an XML string which is used to refer to the note object 10 when subsequently accessing the note.

Delete Note 22b deletes a specified note object 10 (including all note-descriptive attributes 12 and note data 14) from the notes list associated with a particular application session.

Add Attributes 22c allows a list of attributes to be added to an existing
5 note object 10. These attributes can either add new attributes for a note object 10 or modify existing note attributes.

Delete Attributes 22d deletes specified attributes from the list of attributes of a note object 10 associated with a Note ID 12a.

Get Note Attribute 22e returns the list of attributes associated with a
10 specified note object 10.

Lock Note 22f locks a note object 10 so that it cannot be modified except by the client who issued the lock to provide access control of the note while in a session. Unlock Note 22g allows the client who issued the lock
(or others with appropriate permission) to unlock a note object 10 to allow
15 modifications to the note object 10.

List Notes 22h returns a list of notes, with their associated attributes, that are associated with a particular application session. In the illustrative embodiment, List Notes 22h returns the list of notes including note-descriptive attributes 12 and note data 14 as a series of XML descriptions
20 that are wrapped in start and end tags so that clients can detect the end of the list.

Add Note Data 22i adds data to the note data 14 attribute of a specified note object 10. The note data 14 is a stream of bytes and is not interpreted by the Notes Service 20; however, the proper note-descriptive
25 attributes 12 are set on the note to describe the data.

Delete Note Data 22j deletes the note data 14 associated with a specified note object 10.

Get Note Data 22k returns the note data 14 associated with a specified note object 10. The Note ID 12a is sent to the Notes Services 20
30 server, and the Note Data 14 associated with the note object 10 identified by the Note ID 12a is returned to the requesting client 15a, ..., 15n. The requesting client 15a, ..., 15n will preferably know the type of data (by querying the note object 10 attributes 12 (such as Note Type 12b).

Accordingly, in the illustrative embodiment, only the byte stream of data is returned.

Display Note 22l causes the details of a specified note to be displayed, for example in a pop-up window. In a collaboration environment, Display Note 22l communicates to all connected clients 15a, ..., 15n in a given session to display the details of a specific note object 10 in a display window.

FIG. 4 is a block diagram of an illustrative embodiment of a system employing the Notes Service 20 application. As illustrated, Notes Service 20 includes a Store Module 24, a Retrieval Module 26, and a Management Module 28. Application 15 includes a Notes Capture module 22 which provides the capability for capturing not only a user note, but also context information such as the state of the display screen and other note-related information including links to other object types (e.g., a web-site URL, a graphical image file, an audio file, etc.). Capture module 22 captures and bundles the information together for the store 24 and management 28 modules.

Storage module 24 provides the capability for storing captured notes and associated context information in the Notes Database 30 (i.e., persistent storage) for later recall. Notes Database 30 can be implemented in various ways, for example as a relational database or a document management system such as WorkManager, developed by CoCreate Software, Inc.

Retrieval module 26 provides the capability for retrieving information from Notes Database 30. Retrieval module 26 allows the user to specify the type of information to be retrieved using queries, filters and sorts.

Management module 28 allows a user to administer the Notes Database 30. In particular, management module 28 allows a user to modify, delete, and update the status of a note object 10. The updating of a note object 10 can either be accomplished using a versioning algorithm or by modifying the attributes of a given note.

Application 15 typically accesses a data source 16 containing information on which the application operates. For example, application 15 may be a collaboration application such as OneSpace, developed by CoCreate Software, Inc., used to display 3-D models of engineering parts

that are stored in a parts database data source. As another example, application 15 may be a personal organizer application storing calendar and contact information in a personal information data source file.

FIG. 5 is an illustrative embodiment of a graphical user interface 100 which provides a user interface for accessing the Notes Service 20 in a computer based meeting application. As illustrated, the Notes Service 20 is accessed via a menu bar 102 that includes menu item 104 labeled "Notes". When selected via a mouse or function key, menu item 104 displays a drop-down menu 110 which displays a menu of selectable Notes Service functions. In the illustrative embodiment, drop-down menu 110 includes Notes Service functions Create 110a for creating a note, Display 110b for displaying a note, Delete 110c for deleting a note, Edit 110d for editing a note, Copy 110e for copying a note, Cut 110f for cutting a note to a clipboard, and Paste 110g for pasting a note from the clipboard. Each of these functions 110a-110g may be initiated by clicking on the desired menu item via a mouse or function key.

FIG. 6 is a create note dialog 120 of the graphical user interface 100 that is displayed when the Create 110a menu item has been selected. As illustrated, the create note dialog 120 allows entry of a single note, or succession of single notes by a user of a client application 15. When application 10 is a collaboration application, all members of the same collaboration session preferably have the ability to create a note that may be seen by all other collaboration session members.

The create note dialog 120 includes user capabilities to set the attributes of a note. In particular, the create note dialog 120 allows the user to select the type of note to be created. In the illustrative embodiment, the type of note is selectable via a drop-down menu 121, which allows the user to set the note type to one of either a General Note 121a, an Action Item 121b, a Decision 121c, or an Issue 121d. Each note type has a set of note type specific attributes which are displayed in the create note dialog 120 upon selection of the note type by the user. The note type specific attributes include a different set of attributes for each note type. For example, the General Note 121a type may display only the standard editable Author attribute 122 and Creation Time attribute 123. These attributes may be

filled in by the author of the note, or alternatively may be filled in automatically (with overwrite capability) by the Notes Service 20 using user configuration information. If instead the Action Item type 121b is selected, for example, additional editable attributes including an Assigned To attribute 141, a Due Date attribute 142, and a Status attribute 143 (see FIG. 8) may be displayed. Preferably, the create note dialog 120 allow the user to create add note type categories.

In each note type, a content field 124 is displayed. The content field 124 may be filled in by the user and/or a file may be attached to the note via an Attach dialog (not shown) accessed by clicking on an Attach button 125.

In the illustrative embodiment, the create note dialog 120 includes a Link button 126 which allows the user to link the note object to another object (preferably of any type, for example, a 3-D data file, a web-site URL, an audio or video file, a text document, etc.) to create a relation. The links associated with the object note are displayed in a Links display panel 124b. In the illustrative embodiment, the Notes Service 20 may automatically create a note and link it to an object used by the client application 15 whenever the object used by the client application 15 is modified. For example, if the client application 15 is a CAD application that creates or utilizes 3-D models of objects, the Notes Service 20 may be configured to automatically generate a note object whenever the 3-D object model is modified, recording the author of the modification and the modification date. A pop-up dialog may prompt the user for a description of the changes made to the 3-D model. User created and automatically created note objects may be stored in separate areas of the Notes database 30 and displayed separately, or may be stored and displayed together, depending on the particular implementation. Preferably, the create note dialog 120 also includes a Save Screen checkbox option 126b that allows the user the option of saving the state of the current screen for later viewing to provide context for the current note.

A New button 127 allows a user to create a new note without popping down the current Create Note dialog 120. A Subnote button 128 allows the user to create a subnote to the currently active note, thereby allowing the creation of hierarchical relationships between note objects.

Cancel button 129 allows a user to cancel the current note prior to being stored in the Notes Service 20. If the Cancel button 129 is activated, the currently active note object is discarded – that is, the memory occupied by the currently active note object is freed and it is not saved in persistent storage.

FIG. 7 is a display note dialog 130 of the graphical user interface 100 that is displayed when the Display 110b menu item of the drop-down menu 110 of the Notes Service functions has been selected. Display notes dialog 130 displays notes created by the client application in a Notes Table 135. If the client application 15 is a collaboration application, the Display Notes dialog 130 displays the note objects created during a specified collaboration session. These notes may be filtered according to type. For example, selecting the All Notes tab 131a results in a list of all notes being displayed, regardless of type, selecting the General tab 131b results in a list of all the General notes being displayed, selecting the Action Items tab 131c results in a list of all the Action Item notes being displayed, selecting the Decisions tab 131d results in a list of all the Decision notes being displayed, and selecting the Issues tab 131e results in a list of all the Issue notes being displayed.

Display notes dialog 130 allows the user to sort the displayed notes according to various criteria. For example, clicking on the Creation Time header 132c sorts the notes in order of Creation Time. Clicking on the Author header 132d sorts the notes in terms of Author names in alphabetical order. The other headers may be clicked on to similarly sort the notes in terms of the contents of their respective columns. Notes may also be sorted according to criteria specified in a sort dialog (not shown) accessed by clicking on a Sort button 133a.

Display notes dialog 130 may also include filtering capabilities, such as the ability to filter note objects based on a date range for the Creation Time attribute or Last Modified attribute. Filtering capabilities may be configured in a Filter dialog (not shown) accessed by clicking on a Filter button 133b.

In the illustrative embodiment, if a note in the Notes Table 135 is double-clicked, or if the note in the Notes Table 135 is selected and then a Detail button 133c is clicked, a Note Detail window 140 pops up, illustrated in

FIG. 8. Note Detail window 140 displays all attributes and relationships of a selected note object. In the illustrative embodiment, the Note Detail window 140 provides user capability to edit the contents of the attributes in this window, add or delete object links, and/or delete the note entirely. It will be appreciated that different types of note objects (as indicated by the value of the Note Type attribute) will have a different set of attributes. Some attributes will be common among two or more note object types. Furthermore, attributes of each note object may be configured to allow or not allow editing of the attribute.

Turning back to FIG. 7, in the Display notes dialog 130, a note can be linked to another note or an object of a different type by clicking on the Link button 133d, which pops up a Link Note dialog, shown in FIG. 9. An Unlink button 133e allow the user to remove a link relationship associated with a selected note object. An Edit button 133f may be clicked on to bring up the Note Detail window 140 to allow the user to edit various attributes of a selected note. A Delete button 133g allows a user to delete a selected note from the system. Finally, a Cancel button 134 pops down the Display Notes dialog 130.

FIG. 10 is a block diagram of a networked collaboration environment which utilizes the Notes Service 20. As illustrated, a collaboration server 25 executes a collaboration function 22 which synchronizes a plurality of collaborative meeting applications 15 executing on respective clients 15a, 15b, and 15n, which are connected to a network 12 (e.g., the Internet). Collaboration function 22 allows clients 15a, 15b, and 15n to connect to a collaboration session using known collaboration connection techniques, for example, those used in OneSpace, developed by CoCreate Software, Inc. While the collaboration session is open, the respective viewing areas 18a, 18b, 18c on the display of each participating session client 15a, 15b, and 15n are synchronized such that the data viewed in each viewing area 18a, 18b, 18c is displayed at the same time.

In a collaborative environment, notes are public information; when a note object is created, all participant members of the same collaboration session see the note. Likewise, when a note is displayed or a query run, all participant members see the displayed note or query results.

Notes can be related to other objects within a collaboration session, such as CAD geometry (parts, edges, faces, features, assemblies), other notes, a screenshot (static 2D image), or other objects such as markups, documents, and even to objects outside of the application 10.

FIG. 11(a) and 11(b) together illustrate a unified modeling language (UML) diagram of an exemplary embodiment of a Notes Service 20 implemented in accordance with the invention.

FIG. 12 is an example embodiment of a Notes Table 200 implementing a notes list for a particular meeting session. Each notes table 200 is stored in the Notes Database 30. As illustrated, Notes Table 200 in the illustrative embodiment is a relational database wherein each row represents a different note object identified by a Note ID attribute 12a, and each column represents a different attribute of the note object 10. In the illustrative embodiment, a column exists for each possible attribute of every defined note type. Accordingly, in the Notes Table 200, a respective column is mapped to each possible note object attribute, including columns Note Id 201, Note Type 202, Creation Time 203, author 204, Last Modified Time 205, Last Modified By 206, Assigned To 207, Due Date 208, Status 209, and Links List 210.

The Links List field of each note contains a pointer to a linked list of associated note links. Alternatively, the links associated with various notes are implemented in a separate Links table, illustrated in FIG. 13, wherein one column of the table represents the Note ID field, and the following columns contain links to other objects (if any) associated with the note object identified by the Note ID. For example, Note ID value A associates the linked list in the Links table with the Note object in the Notes table.

Although the invention has been described in terms of the illustrative embodiments, it will be appreciated by those skilled in the art that various changes and modifications may be made to the illustrative embodiments without departing from the spirit or scope of the invention. It is intended that the scope of the invention not be limited in any way to the illustrative embodiment shown and described but that the invention be limited only by the claims appended hereto.

WHAT IS CLAIMED IS:

1. A notes service for a computer application, comprising:
a note creation module which captures an electronic note and
associates it with a context; and
5 a note storage module which stores said captured note and
associated context for later retrieval.
2. The notes service of claim 1, comprising:
a note retrieval module which receives a query condition and retrieves
10 said captured note and associated context if said note meets said query
condition.
3. The notes service of claim 1, comprising:
a note management module which enables a user to modify a
15 captured note.
4. The notes service of claim 1, comprising:
a collaboration function which allows a plurality of collaboration
session members to synchronously view a graphical user interface of said
20 notes service.
5. A method for capturing and managing electronic notes in a
computer based application, comprising:
capturing a note in a note object; and
25 associating a context with said captured note to said note object.
6. The method of claim 5, comprising:
storing said note object and said associated context in persistent
storage for later retrieval.
- 30 7. The method of claim 6, comprising:
receiving a query condition; and
retrieving said note object and said associated context if attributes of
said note object meet said query condition.

8. The method of claim 5, comprising:
displaying said note captured in said note object.

5 9. The method of claim 8, comprising:
displaying said context associated with said note object.

10 10. The method of claim 5, comprising:
capturing a second note and linking said second captured note to said
captured note in an hierarchical relationship.

11. The method of claim 5, comprising:
connecting to a collaboration session;
synchronously displaying a notes service graphical user interface to
15 all members connected to said collaboration session.

12. The method of claim 11, comprising:
locking said note to prevent other members of said collaboration
session from changing said note.

13. A computer readable storage medium tangibly embodying
program instructions implementing a method for capturing and managing
electronic notes in a computer based application, the method comprising the
steps of:

25 capturing a note in a note object; and
associating a context with said captured note to said note object.

14. The computer readable storage medium of claim 13, the method
comprising:
30 storing said note object and said associated context in persistent
storage for later retrieval.

15. The computer readable storage medium of claim 13, the method
comprising:

receiving a query condition; and
retrieving said note object and said associated context if attributes of
said note object meet said query condition.

5 16. The computer readable storage medium of claim 13, the method
comprising:
displaying said note captured in said note object.

10 17. The computer readable storage medium of claim 15, the method
comprising:
displaying said context associated with said note object.

15 18. The computer readable storage medium of claim 13, the method
comprising:
capturing a second note and linking said second captured note to said
captured note in an hierarchical relationship.

20 19. The computer readable storage medium of claim 13, the method
comprising:
connecting to a collaboration session;
synchronously displaying a notes service graphical user interface to
all members connected to said collaboration session.

25 20. The computer readable storage medium of claim 19, the method
comprising:
locking said note to prevent other members of said collaboration
session from changing said note.

Abstract

A method and system for capturing and managing electronic notes in a computer based application is presented. Electronic notes are captured in a note object and the context of the captured note is associated to the note object. Note objects are stored in a notes database for later retrieval. The notes can be queried, filtered, and sorted to obtain useful information from the notes.

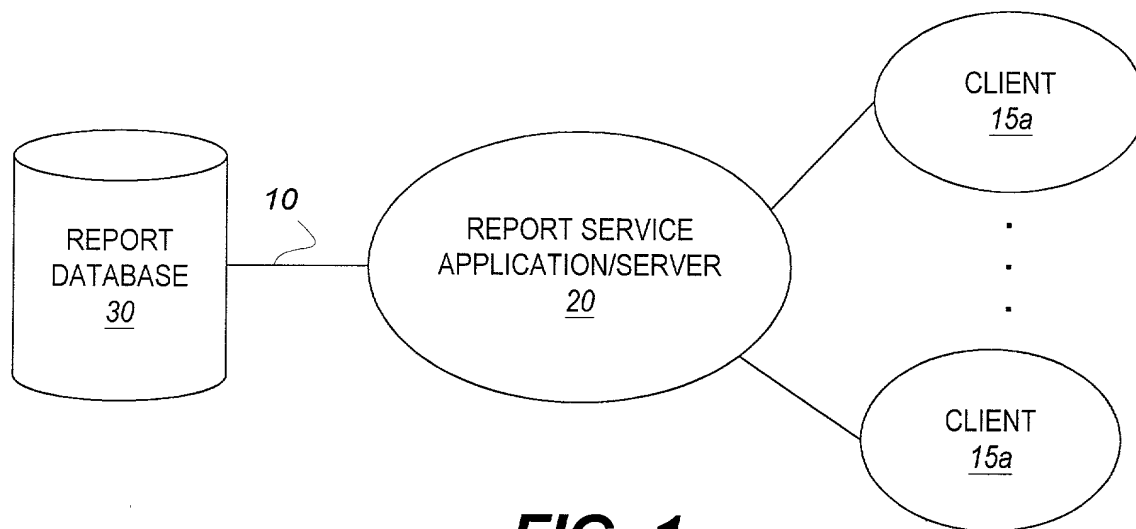


FIG. 1

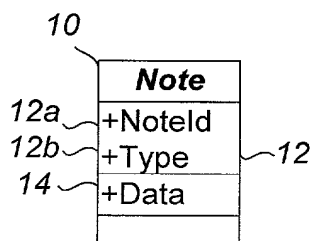


FIG. 2

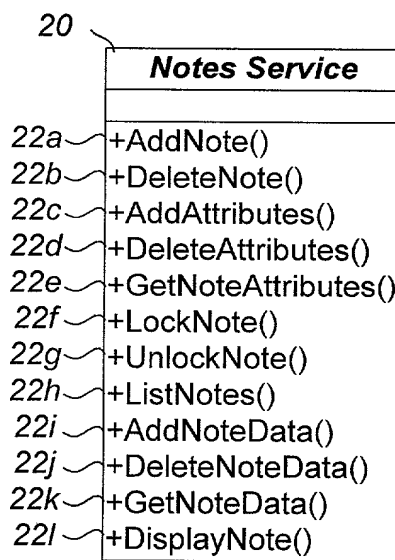
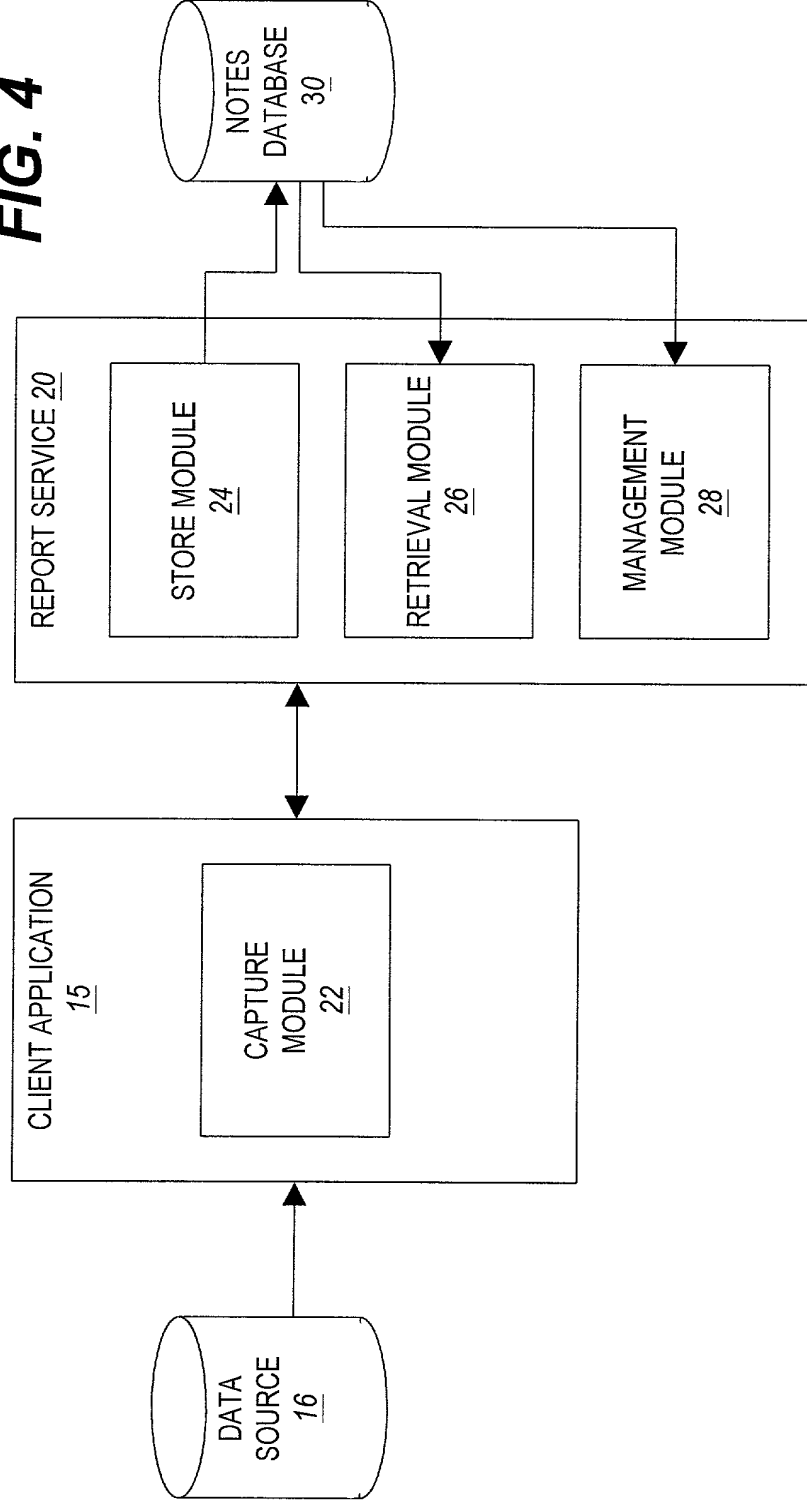


FIG. 3

FIG. 4



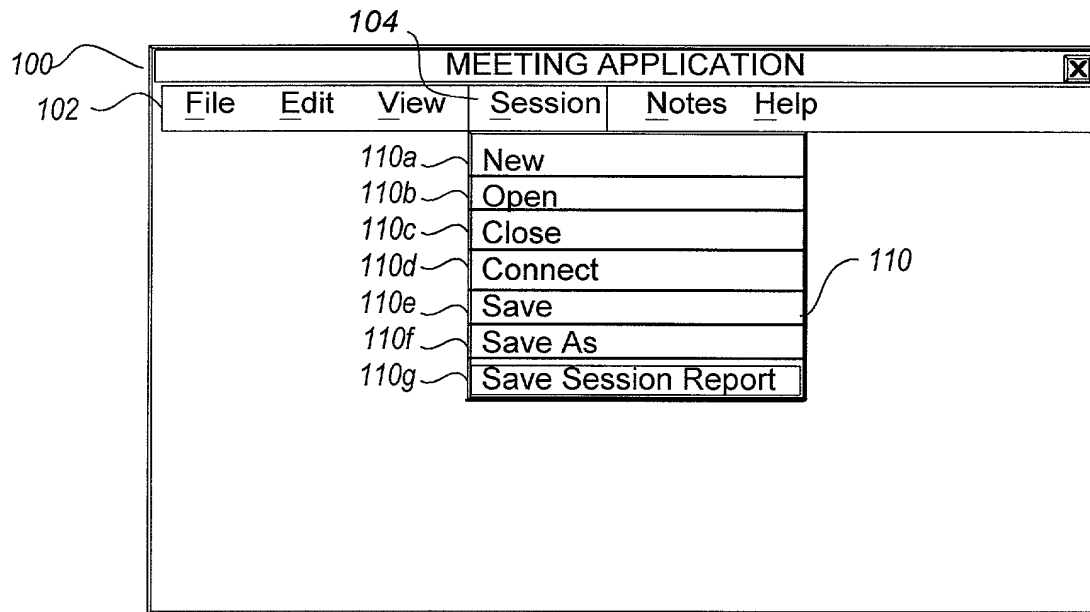


FIG. 5

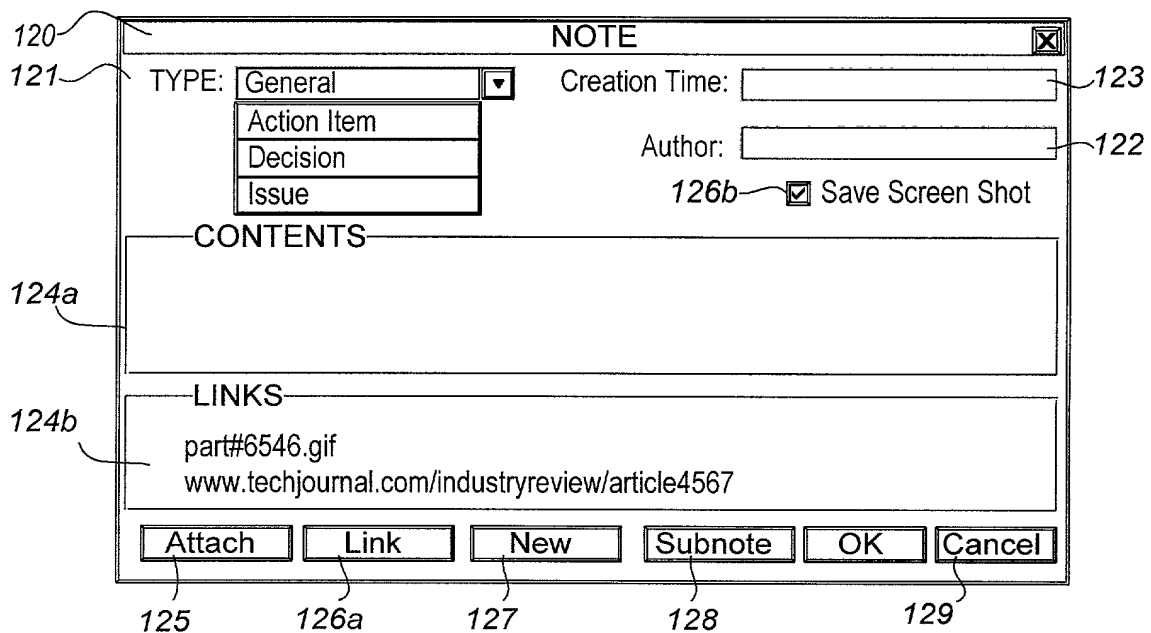


FIG. 6

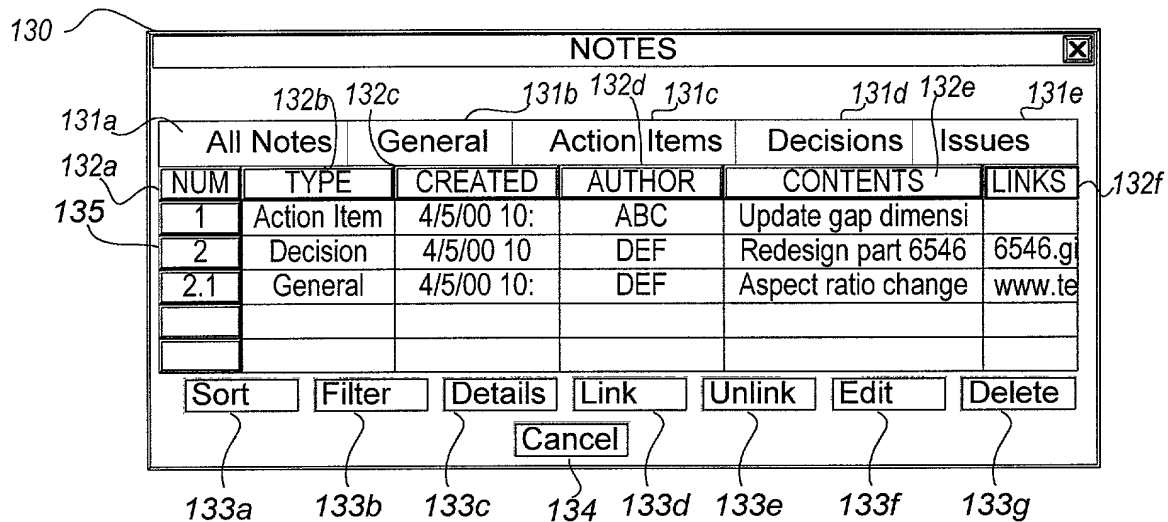


FIG. 7

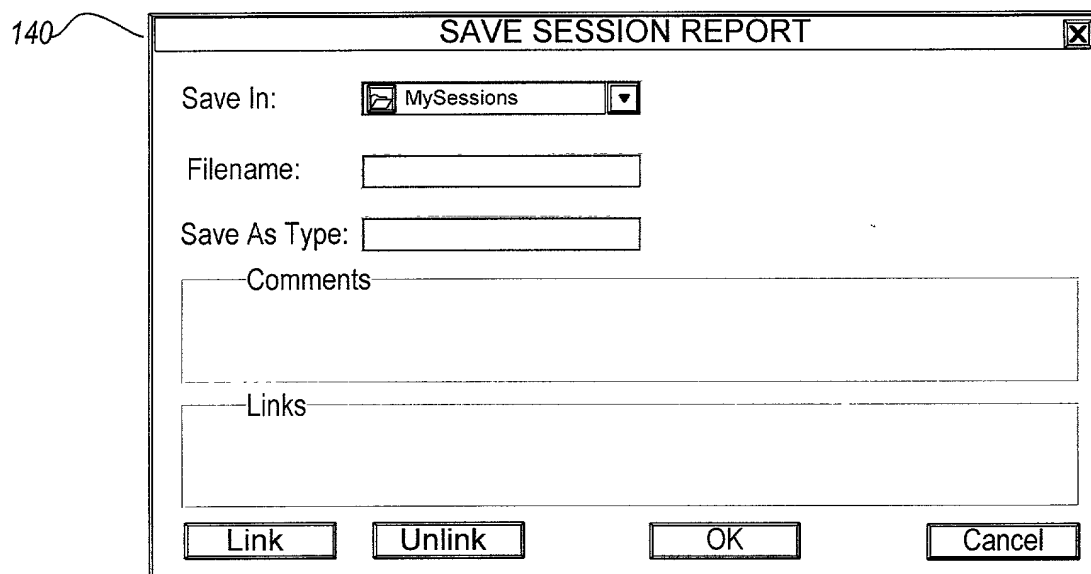


FIG. 8

CREATE LINK ☐

LINK NAME

industry article

LOCATION

www.techjournal.com/industryreviews/article4512.html

OK Cancel

FIG. 9

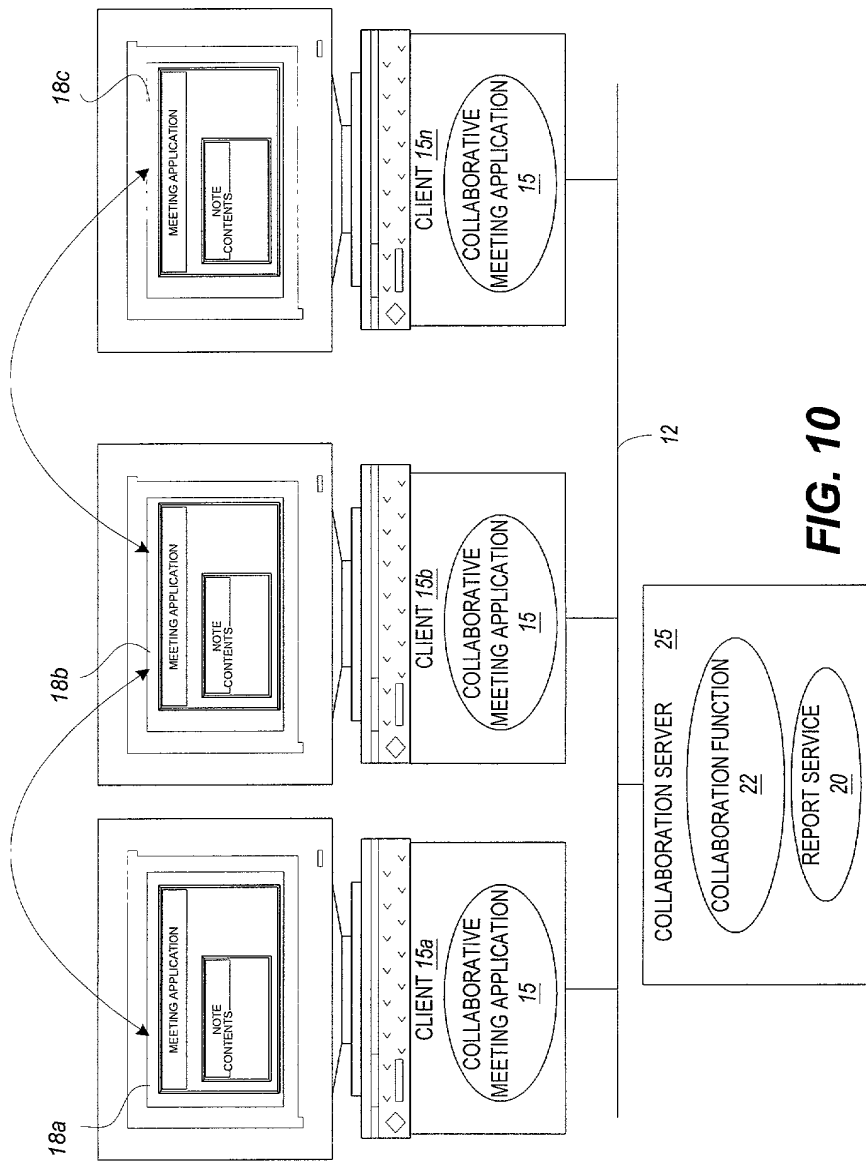
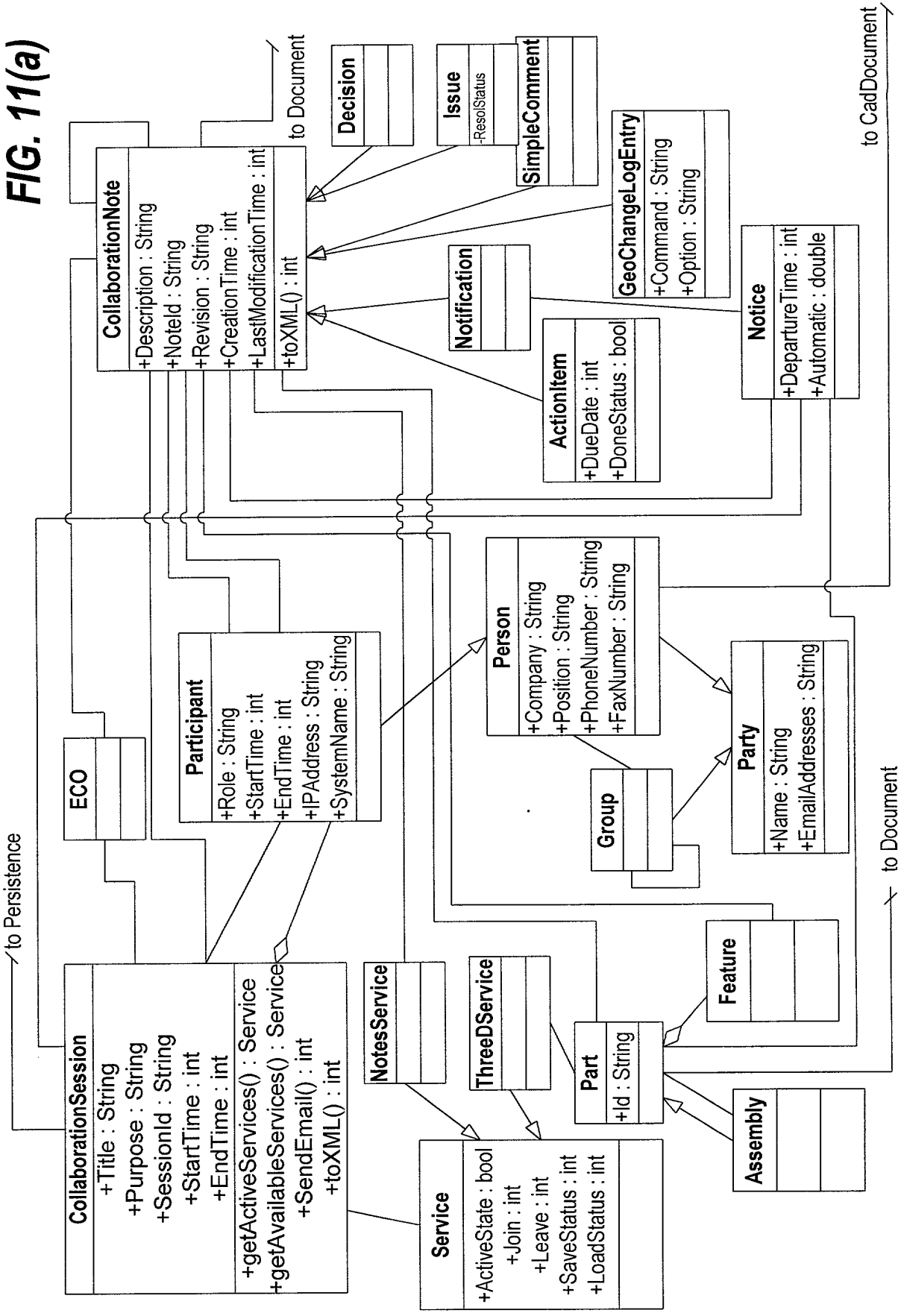


FIG. 10

FIG. 11(a)



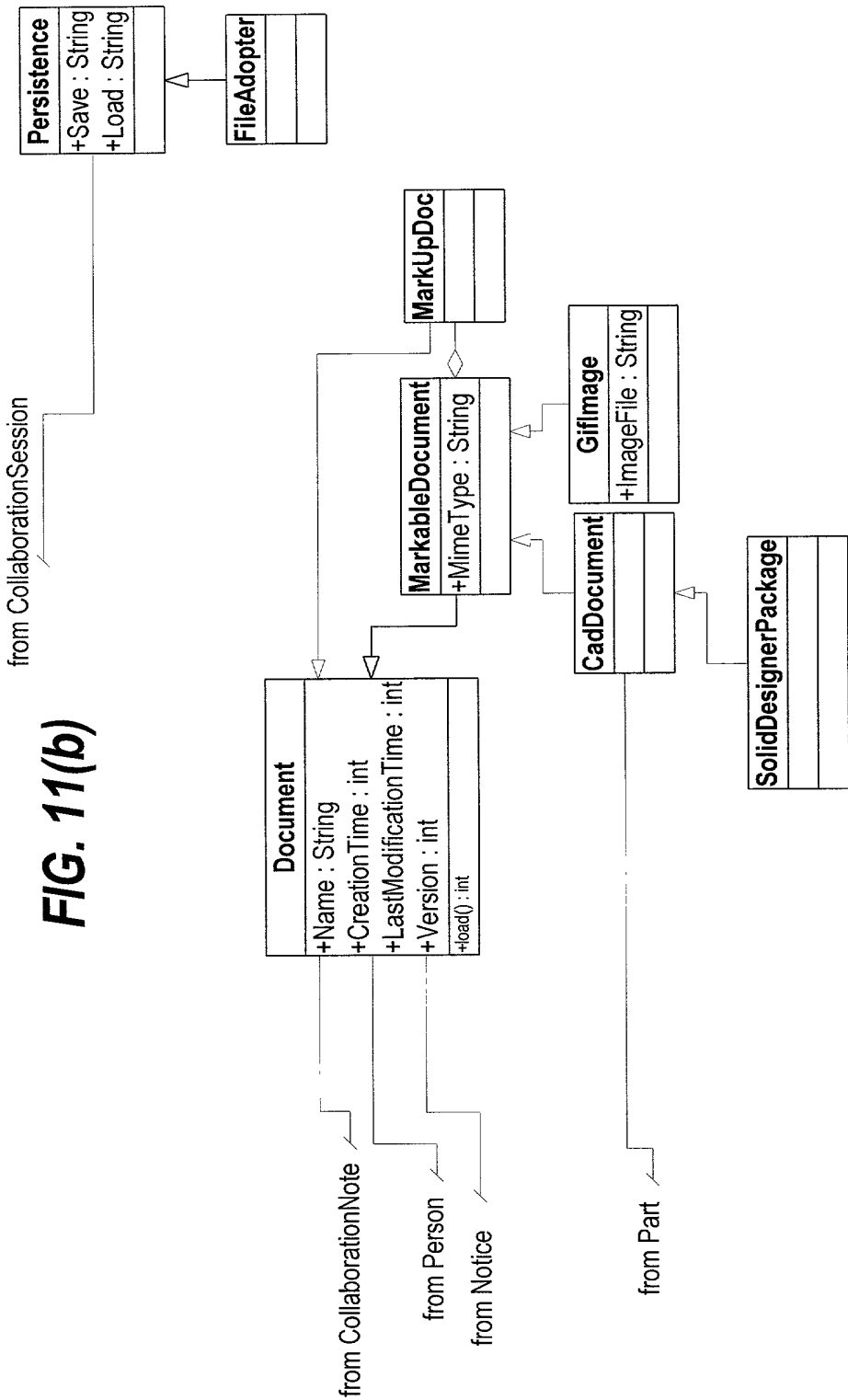


FIG. 11(b)

Note ID	A				
Note Type					
Creation Time					
Author					
Last Modified Time					
Last Modified By					
Assigned To					
Due Date					
Status					
Links List					

FIG. 12

Links					
Note ID	A				

FIG. 13

DECLARATION AND POWER OF ATTORNEY FOR
PATENT APPLICATION

DOCKET NO. 4079.03USU1

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:
METHOD AND SYSTEM FOR CAPTURING, STORING, SHARING, AND MANAGING NOTES TAKEN DURING A COMPUTER BASED MEETING

the specification of which is attached hereto unless the following box is checked:

() was filed on _____ as US Application Serial No. or PCT International Application Number
_____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor(s) certificate listed below and have also identified below any foreign application for patent or inventor(s) certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATED FILED	PRIORITY CLAIMED UNDER 35 U.S.C. 119
			YES: _____ NO: _____
			YES: _____ NO: _____

Provisional Application

I hereby claim the benefit under Title 35, United States Code Section 119(e) of any United States provisional application(s) listed below

APPLICATION SERIAL NUMBER	FILING DATE

U.S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION SERIAL NUMBER	FILING DATE	STATUS (patented/pending/abandoned)

POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) listed below to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

WILLIAM W. COCHRAN, Registration No. 26,652, David K. Lucente, Registration No. 36,202.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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